KELVIN® EDUCATIONAL

Mold The Vehicle
Bodies then
Design and
Build the
Frame and
Power Train

KELVIN®
VACUUM FORMING MANUFACTURING

Mold The Vehicle
Bodies then
Design and
Build the
Frame and
Power Train

KELVIN®

EDUCATIONAL

MANUFACTURING

KELVIN®

Resin Molds

Form a vehicle body with one of these resin molds and then decorate it. Requires vacuum former.

- 570124 Vehicle Model Mold ........................................................................ $75
- 570125 KELVIN® Racer Mold .................................................................... $75
- 570126 Pick-up Truck Model Mold .............................................................. $75

KELVIN® Vehicle Parts Bulk Pack

Build a vehicle and design your own power train using the KELVIN® pulley or gear pack. Kit includes a wood base, wheels, axles, plus motor, switches, battery holder, pulley pack, gear pack, and assorted colors of plastic sheets.

- 842015 Bulk Pack for 20 ........................................................................... $145

KELVIN® EZee™ Plastic Former

Designed for ease of use in schools! The 10 x 14 in. material area is large enough for forming dragster models, car bodies, lettering for signs, game parts, masks, boat hauls, etc.

- 841970 110V - Requires Shop Vacuum .................................................... $995
- 841983 110V with Power Suction ............................................................ $1,295
- 842036 220V w/ Direct Vacuum Suction .................................................. $1,995

Polystyrene Sheets

For use with vacuum former. 0.020 to 0.060 in. thick.

- 750225 Astd. Colors, 14 x 10 in., 25 Sheets ............................................... $29.95
- 750226 Clear, 14 in. x20 in., 10 Sheets ...................................................... $29.95
- 570108 Astd. Colors, 14 x 20 in., 65 sheets .............................................. $99.95

Wood, balsa and foam blanks require shaping with tools and sanding. Kits may require soldering and advanced assembly. Adult supervision required.

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**KELVIN® EDUCATIONAL**

**ORIGINAL IDEAS FROM KELVIN EDUCATIONAL**

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**KELVIN® Foam Car Kit**
Design, shape, assemble and paint your foam into a car! Foam is easy to cut, shape and decorate. Includes: [4] wheels, [2] axles, straw, wood base and foam block (2 x 2-1/2 x 8 in.). Shaping and assembly required.

842366 .....................$9.95 or $8.95 ea./10+
842387 Bulk Pack of 10....................$79

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**KELVIN® Economy Foam Cutter**
Features acrylic table with an adjustable wire cutting angle that’s simple and quick to set! It’s a perfect machine for modeling design ideas and hobbyists, at an affordable price! One level of heat. Includes wall adapter.

841982 .........................$89.95 or $87.95 ea./3+ or $85.95 ea./10+

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**Polystyrene Foam Blanks**

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**Polystyrene Foam Sheets**

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**CAUTION:**

Hot Wire! Adult Supervision Required.

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**MANUFACTURING INJECTION MOLDING**

**KELVIN® EDUCATIONAL**

**Learn about Injection Molding While Making Fun and Useful Products!**

**Manual Injection Molder**

Economical choice for school technology programs with plastics units. Uses 700W, 117 VAC, 2/3 oz. capacity, 550W plastics heater, electronic heat control, 2,500 lb. mold clamp, GFI power handling, teflon coated ram cylinder, instructions and a one year warranty. Accepts most HONA and EMCO molds. Maximum mold size is 2-1/4 x 4 x 1 in.

$1799.95

**KELVIN® Aluminum Injection Molds**

Use low density polyethylene for these molds. Standard sizes:

- 570018 Checker $99.95
- 570019 Golf Tee $99.95
- 570020 Poker Chips $99.95
- 570022 Front Wheel $126.95
- 570023 Rear Wheel $99.95
- 570129 Guitar Pick $99.95
- 570130 Bottle Cap $99.95
- 570131 Spinning Top $99.95
- 570027 Blue Polystyrene, 5 lbs. $39.95
- 570028 Red Polystyrene, 5 lbs. $39.95
- 570029 Green Polystyrene, 5 lbs. $39.95
- 570030 Yellow Polystyrene, 5 lbs. $39.95

**KELVIN® Build Your Own® Screwdriver**

Make your own screw-drivers with the tool handle mold, nickel-plated steel blades and polystyrene resin crystals (for the screwdriver mold ONLY).

- 570017 Screwdriver Tool Handle Mold $126.95
- 570024 Slotted Screwdriver Blades, 100/pkg. $41.95
- 570025 Phillips Screwdriver Blades, 100/pkg. $41.95
- 570027 Blue Polystyrene, 5 lbs. $39.95
- 570028 Red Polystyrene, 5 lbs. $39.95
- 570029 Green Polystyrene, 5 lbs. $39.95
- 570030 Yellow Polystyrene, 5 lbs. $39.95

**Glue Gun Injection Molding**

An easy and economical way to demonstrate injection molding. Students design and make a simple mold or a very complex molds and manufacture their own plastic products.

**Glue Gun**

Trigger feed operation allows the user to apply pressure while injecting glue plastic.

$4.95 or $4.45 ea./6+

**Plastic Glue Sticks**

Plastic in assorted colors.

$2.25 or $1.95 ea./6+

**Mold Case**

A two-part mold case holds designs sandwiched inside with injection hole and two screws to hold the pieces together.

$17.95

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ACRYLIC BENDING

KELVIN® Hot Line Acrylic Bender
The bender heats acrylic plastic making it easy to form. Place the heated acrylic on the Angle Bender to obtain crisp tight bends at any angle. Requires 110 volts.

841999 (Shown Below) .................................. $295

Matching Angle Jig
841998 (Shown at Right) .................. $195

Acrylic Rods

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Acrylic Sheets
Sheets measure 12 x 24 x 1/8 in.

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Plastic Cutter
Cuts plastic sheets up to 1/4 in. thick and easily creates beveled edges.

390430 .......... $4.95

Edge Scraper
Use to remove saw cuts from acrylic sheet edges.

390432 .......... $15.95

Find More Acrylic Tools and Supplies at www.kelvin.com
ELM, MS, HS
841646
Package Design Challenge Kits
Tools, DesignGrid Card Stock and Portfolio, Package Fabricating Material, design. Module includes: Design, model and evaluate a package KELVIN
$3.45
841312 ............................................
box or container and decorate it according to criteria from the teacher.
design the decoration, logo, UPC code, etc.
Jewelry Box, Perfume Box and Game Box. After assembling their box, they
design the product information, promotional words, packaging for a: Soap Box,
prior to assembly as a design activity. For a design challenge, have students
Students build four different types of boxes. They can decorate these boxes
KELVIN® Reverse Engineering: Flashlight Bulk Pack
Early in the process of developing a product, designers often research how people have solved similar design problems in the past. The old adage, in. why reinvent the wheel? in. applies here. Designers often use a reverse engineering technique that entails taking the product apart to see how it works and how its creators tackled its technical problems.
The KELVIN® Reverse Engineering Lab gives your students the opportunity to reverse engineer an everyday product and discover its designer’s ideas and concepts. The activity includes step by step instructions for the student and teacher along with probing questions that direct the students’ investigation of the product.
Classroom tested! Take a flashlight apart to see how it works and how it was designed. Includes: Flashlights, Student Study Guides and a Teacher Resource Guide. *NOTE: Actual project contents are subject to change.
841828 Bulk Pack for 10 ..................................................As Low As $8.99 Per Kit $89.95
Find More ENGINEERING PRINCIPLE KITS in the DESIGN chapter on pgs. D6-7.
KELVIN® Totem Pole Design Challenge™
Students begin by researching totem pole figures and then designing their own totem pole to reflect important events, people or places in their lives. Every part of a totem pole is significant and has it’s own story. Northwest Pacific Coast Natives carved totem poles as records of the past in a culture that had no written language. Through groups of faces, figures and patterns stacked and woven, totem poles can record family members, relationships to other clans, family rights, achievements, stories and adventures.
Students must design all six dimensions (top, bottom and 4 faces) of the totem pole either using grid paper or, for more advanced students, CAD software. After drafting a final design, students transfer it to the wood blank. Using various wood crafting techniques, they carve out their totem pole. The totem pole can be sanded and then considered finished or taken even further by painting it.
Includes DesignGrid™ Paper and Wood Blank. Plans are not included to
KELVIN® Package Design 2: Adhesive & CAD
Design and test package adhesive and package design. Module includes: Tab+CAD Pattern Software, Measuring Devices and Non-Toxic Glue
841647 ELM, MS, HS ..................$195
841650 Plus PC..........................$1,795
KELVIN® Package Design 1
841646 ELM, MS, HS .................$395
KELVIN® Lamp Kit
A great product for mass production projects. It can also be used for fund raising. Students design and construct the base for this lamp out of almost anything—a stack of books, a mason jar or a creative wood sculpture. The kit includes: 6 ft. long cord with plug, push-thru socket, 12 in. lamp pipe, and [2] hex nuts. Requires harp/final below.
840675 Kit ..................................................$5.95 or $5.35 ea/(10+)
842383 Bulk Pack of 15 ...........................................As Low As $5.66 Per Kit $84.95
280162 Harp/Final, 10 in. long........................................$3.75
6D Design for the Sides, Top and Bottom!
KELVIN® Lamp Kit
841150 .......................................................................................
840675 .......................................................................................
842383 .......................................................................................
280162 .....................................................................................
As Low As $8.99 Per Kit $89.95
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